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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,493	01/17/2007	Yasukazu Nakakita	294863US0PCT	8307

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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

CALAMITA, HEATHER

ART UNIT	PAPER NUMBER
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1637

NOTIFICATION DATE	DELIVERY MODE
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10/16/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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**Supplemental
Notice of Allowability**

Application No.

10/589,493

Examiner

HEATHER G. CALAMITA

Applicant(s)

NAKAKITA ET AL.

Art Unit

1637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the correspondence filed January 17, 2007.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/Heather G. Calamita/
Primary Examiner, Art Unit 1637

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SUPPLEMENTAL ACTION

Status of Application, Amendments, and/or Claims

1. This is a supplemental office action due to the Examiner's oversight in failing to amend claims 5 and 7 so that the claims are properly dependent. The claims are amended below such that they are now properly dependent.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Killos on October 8, 2009.

The application has been amended as follows:

IN THE CLAIMS

1. An isolated polynucleotide comprising SEQ ID NO: 1.
2. An isolated primer set for detecting *Malephilus cerevisiae* consisting of an oligonucleotide consisting of SEQ ID NO: 2 and an oligonucleotide consisting of SEQ ID NO: 3.
3. An isolated primer set for detecting and distinguishing beer-spoilage microorganisms, consisting of an oligonucleotide consisting of SEQ ID NO: 8, an oligonucleotide consisting of SEQ ID NO: 3 and an oligonucleotide consisting of SEQ ID NO: 6.
4. An isolated probe set for detecting and distinguishing beer-spoilage microorganisms, consisting of an oligonucleotide consisting of SEQ ID NO: 4, an oligonucleotide consisting of SEQ ID NO: 7 and an oligonucleotide consisting of SEQ ID NO: 5.

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5. A kit for detecting and distinguishing beer-spoilage microorganisms, comprising a primer set consisting of an oligonucleotide consisting of SEQ ID NO: 8, an oligonucleotide consisting of SEQ ID NO: 3 and an oligonucleotide consisting of SEQ ID NO: 6 and a probe set consisting of an oligonucleotide consisting of SEQ ID NO: 7 and an oligonucleotide consisting of SEQ ID NO: 5.
7. A method for detecting and distinguishing beer-spoilage microorganisms comprising a step of amplifying a nucleic acid sequence fragment using a primer set consisting of an oligonucleotide consisting of SEQ ID NO: 8, an oligonucleotide consisting of SEQ ID NO: 3 and an oligonucleotide consisting of SEQ ID NO: 6 and a step of measuring the melting temperature of hybrids between the obtained nucleic acid fragment and a probe set consisting of an oligonucleotide consisting of SEQ ID NO: 7 and an oligonucleotide consisting of SEQ ID NO: 5.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: Claim 1 is interpreted as requiring SEQ ID NO: 1 in its entirety and as such this sequence is novel and unobvious over the prior art. Claims 2, 3 and 4 are interpreted as requiring the sequences recited in the claims contain only the nucleotides recited in SEQ ID NOs 2-8, respectively and as such these sequences are novel and unobvious over the prior art. The method claims require the novel primer and probe sequences recited in claims 2-4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather G. Calamita whose telephone number is 571.272.2876 and whose e-mail address is heather.calamita@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route. The examiner can normally be reached on

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Monday through Thursday, 7:00 AM to 5:30 PM.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Gary Benzion can be reached at 571.272.0782.

Papers related to this application may be faxed to Group 1637 via the PTO Fax Center using the fax number 571.273.8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 571.272.0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

/Heather G. Calamita/
Primary Examiner, Art Unit 1637